

AMENDMENTS TO THE CLAIMS

The following listing of claims replaces all prior listings, and all prior versions, of claims in the application.

LISTING OF CLAIMS:

1. (Currently Amended) A position measuring apparatus for surgery comprising:

a position indicating means for indicating a position and a direction of a surgical tool, said position indicating means comprising a pair of laser beam emitting means for emitting respective laser beams that intersect in a plane-like manner towards a surgical field;

a three-dimensional position measuring means for measuring a position and a direction of said surgical field and also the position and the direction of said surgical tool;

means for calculating setting position and direction of said laser emitting means from the emit angle of the laser beam and a laser beam emitting position that is measured by said three-dimensional position measuring means; and

a control unit for controlling operation of said position indicating means and said three-dimensional position measuring means,

wherein said position indicating means and said three-dimensional position measuring means being fixed on a common base, so that relative positional relationship therebetween is constant; and

wherein said direction for said surgical tool is given in a form of an intersection line.

2. (Cancelled).

3. (Previously Presented) A position measuring apparatus, as described in the claim 1, wherein said position measuring apparatus is held on a stand, which is changeable in its position and direction by being movable while keeping the relative positional relationship between said position indicating means and said three-dimensional position measuring means.

4. (Previously Presented) A position measuring apparatus, as described in the claim 1, wherein said position measuring apparatus is held by an arm, the arm extending from a ceiling and being changeable in a position and a direction by being movable while keeping the relative positional relationship between said position indicating means and said three-dimensional position measuring means.

5. (Original) A position measuring apparatus, as described in the claim 1, wherein said position measuring apparatus is used for indicating a position and a direction of a surgical tool during a surgical operation.

6. – 13. (Cancelled).